

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09872

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ H01L29/78, H01L21/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H01L29/78, H01L21/28

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1922-1996 | Toroku Jitsuyo Shinan Koho | 1994-2003 |
| Kokai Jitsuyo Shinan Koho | 1971-2003 | Jitsuyo Shinan Toroku Koho | 1996-2003 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | JP 2000-082812 A (Denso Corp.), 21 March, 2000 (21.03.00), Full text; Figs. 1 to 16 (Family: none) | 1-21 |
| Y | JP 9-045899 A (Sony Corp.), 14 February, 1997 (14.02.97), Full text; Figs. 1 to 6 (Family: none) | 1-21 |
| Y | US 6015725 A (Sony Corp.), 18 January, 2000 (18.01.00), Full text; Figs. 1 to 6 & JP 10-065160 A Full text; Figs. 1 to 12 | 1-21 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

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document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

29 October, 2003 (29.10.03)

Date of mailing of the international search report

11 November, 2003 (11.11.03)

Name and mailing address of the ISA/

Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | JP 6-224438 A (Toshiba Corp., Toshiba Micro-Electronics Corp.), 12 August, 1994 (12.08.94), Full text; Figs. 1 to 9 (Family: none) | 1-21 |
| Y | JP 10-308510 A (Denso Corp.), 17 November, 1998 (17.11.98), Full text; Figs. 1 to 32 (Family: none) | 3-21 |